

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008334

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A43B7/06 A43B13/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A43B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/03536 A (KIM JOO TAE) 18 January 2001 (2001-01-18) page 7, line 8 - page 10, line 8; figures 7-12	1
A	EP 0 903 984 A (BRUE S P A) 31 March 1999 (1999-03-31) paragraph '0017! - paragraph '0020!; figures 3,6	1
A	US 4 446 634 A (JOHNSON PAUL H ET AL) 8 May 1984 (1984-05-08) the whole document	1
A	DE 202 06 885 U (WU CHIEN I) 18 July 2002 (2002-07-18) the whole document	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

25 November 2004

Date of mailing of the international search report

03/12/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 047 310 A (SUNOO HYENG P) 13 September 1977 (1977-09-13) the whole document -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008334

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0103536	A	18-01-2001	KR 164116 Y1 KR 201935 Y1 KR 200030 Y1 AU 5575600 A CN 1279919 A EP 1202644 A1 WO 0103536 A1	15-02-2000 01-11-2000 16-10-2000 30-01-2001 17-01-2001 08-05-2002 18-01-2001
EP 0903984	A	31-03-1999	IT MI961027 A1 AT 195226 T DE 69702758 D1 DE 69702758 T2 EP 0903984 A1 GR 3034729 T3 HK 1018930 A1 JP 2000510741 T US 6076282 A CA 2255557 A1 CN 1219107 A WO 9743918 A1 ES 2150256 T3 ID 17379 A KR 2000015884 A PT 903984 T	24-11-1997 15-08-2000 14-09-2000 12-04-2001 31-03-1999 31-01-2001 11-05-2001 22-08-2000 20-06-2000 27-11-1997 09-06-1999 27-11-1997 16-11-2000 24-12-1997 15-03-2000 31-01-2001
US 4446634	A	08-05-1984	NONE	
DE 20206885	U	18-07-2002	GB 2386538 A US 2003188451 A1 DE 20206885 U1	24-09-2003 09-10-2003 18-07-2002
US 4047310	A	13-09-1977	NONE	